This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



100mu=36051 bp

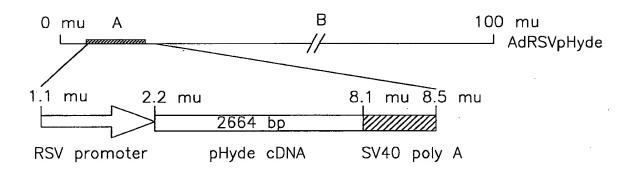


FIG.1



DU145 Control

DU145/AdpHyde

<--- pHyde

< GAPDH

FIG 2A



DU145 Control

DU145/AdRSVpHyde

← pHyde

FIG. 2B



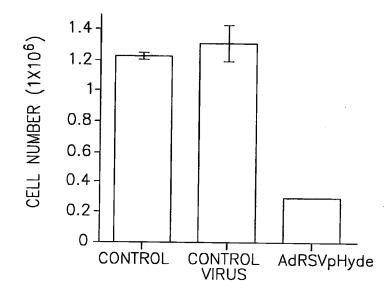


FIG.3A

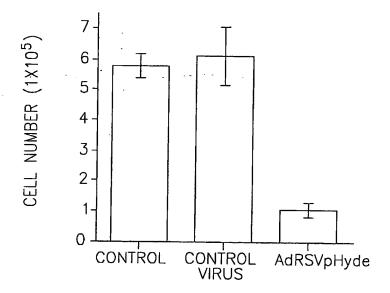


FIG.3B



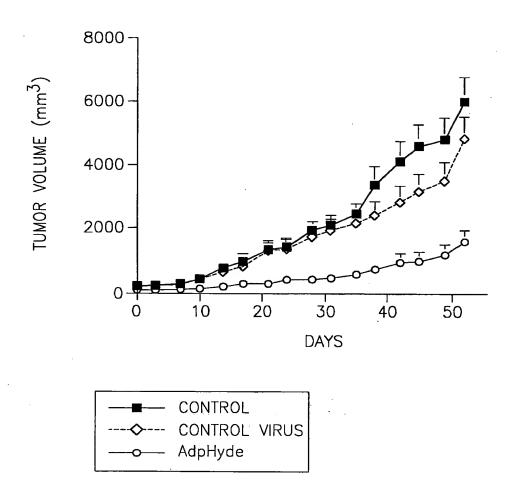


FIG.4





LNCaP Control





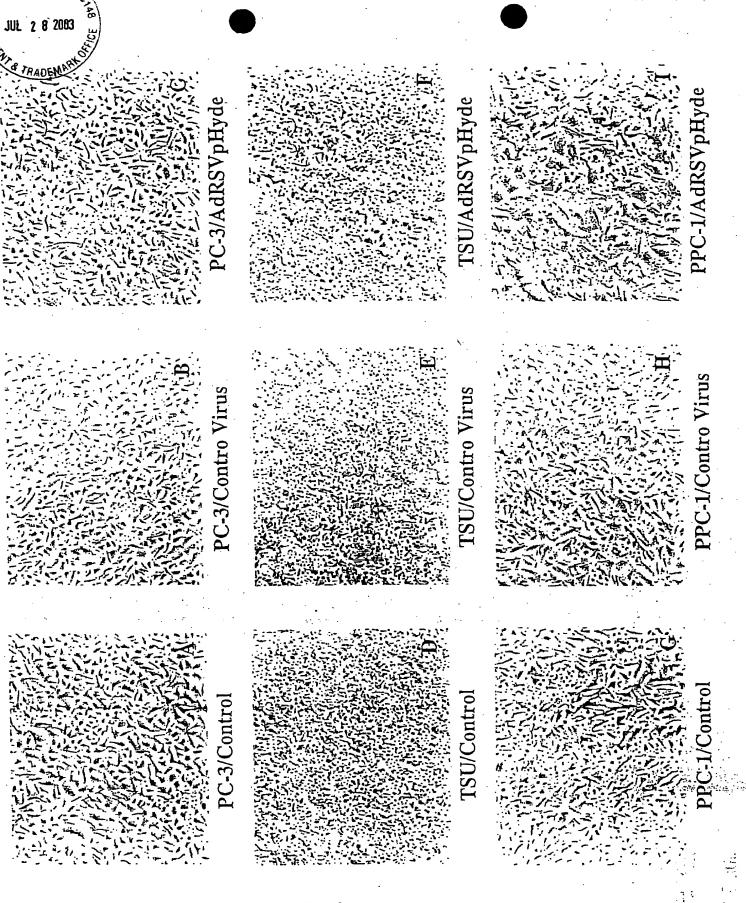


FIG. 6



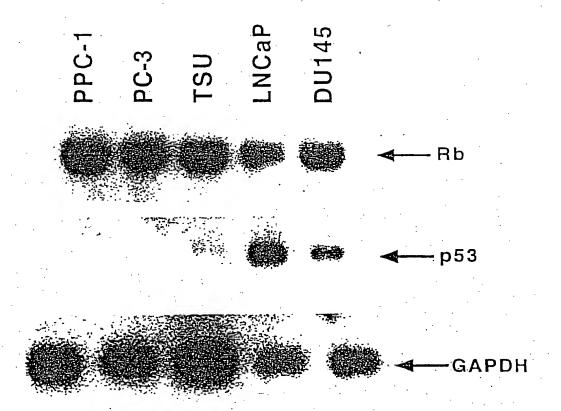


FIG. 7



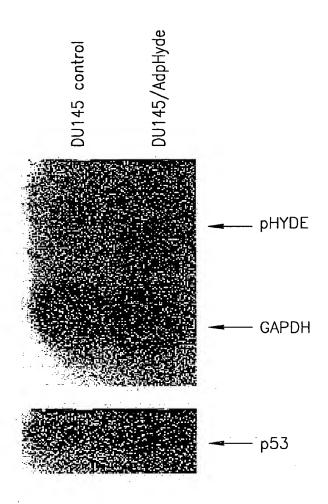
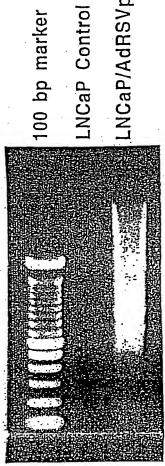


FIG.8



100 bp marker

LNCaP/AdRSVpHyde





SECUENCE OF REGION A OF AdRSVpHyde:

GCGGCCGCCATCATCAATAATACCTTATTTTGGATTGAAG CCAATATGATAATGAGGGGGTGGAGTTTGTGACGTGGC GCGGGGCGTGGGAACGGGGGGGGGTGACGTAGTAGTGTGGC GGAAGTGTGATGTTGCAAGTGTGGCGGAACACATGTAAGC GACGGATGTGGCAAAAGTGACGTTTTTGGTGTGCGCCGGTG TACACAGGAAGTGACAATTTTCGCGCGGTTTTAGGCGGA **TGTTGTAGTAAATTTGGGCGTAACCGAGTAAGATTTGGCCAT** TTTCGCGGGAAAACTGAATAAGAGGAAGTGAAATCTGA ATAATTTTGTGTTACTCATAGCGCGTAATATTTGTCTAGGGCC GCGGGGACTTTGACCGTTTACGTGGAGACTCGCCCAG GGCGCGCCCGATGTACGGGCCAGATATACGCGTATCTGAG GGGACTAGGGTGTGTTTAGGCGAAAAGCGGGGCTTCGGT TGTACGCGGTTAGGAGTCCCCTCAGGATATAGTAGTTTCGCT TTTGCATAGGGAGGGGAAATGTAGTCTTATGCAATAC TCTTGTAGTCTTGCAACATGGTAACGATGAGTTAGCAACATG CCTTACAAGGAGAGAAAAAGCACCGTGCATGCCGATTG GTGGAAGTAAGGTGGTACGATCGTGCCTTATTAGGAAGGCTA ACAGACGGGTCTGACATGGATTGGACGAACCACTGAATT CCGCATTGCAGAGATATTGTATTTAAGTGCCTAGCTCGATAC AATAAACGCCATTTGACCATTCACCACATTGGTGTGCA CCTCCGGCCCTGGCCACTCTCTTCCGCATCGCTGTCTGCGGG GGCCAGCTGTTGGGCTCGCGGTTGAGGACAAACTCTTC GCGGTCTTTCCAGTACTCTTGGATCGGAAACCCGTCGGCCCTC CGAACGGTACTCCGCCGCCGAGGGACCTGAGCGAGTCC GCATCGACCGGATCGGAAAACCTCTCGAGAAAGGCGTGTAA CCAGTCACAGTCGCTCTAGAACTAGTGGATCCCCCGGGC TGCAGGAATTCGATAATTCGGCACGAGGCTGCCGAGGCACT GTGATGTCCGGGGAGATGGACAAACCGCTCATCAGTCGC CGCTTGGTGGACAGTGATGGCAGTCTGGCTGAGGTCCCCAA GGAGGCTCCCAAAGTGGGCATCCTGGGCAGCGGGGATTT TGCCCGGTCCCTGGCCACACGCCTGGTGGGCTCTGGCTTCT TTGTGGTGGTGGGAAGCCGTAACCCCAAACGCACTGCCG GCCTCTTCCCCTCCTTAGCCCAAGTGACTTTCCAGGAGGAGG CCGTGAGCTCTCCAGAGGTCATCTTTGTGGCCGTGTTC CGGGAGCACTACTCCTCACTGTGCAGTCTTGCTGACCAGTTG GCTGGCAAGATCCTAGTGGATGTAAGCAACCCCACGGA GAAGGAGCGTCTTCAGCACCGCCAGTCGAACGCCGAGTACC TGGCCTCCCTCTTCCCTGCCTGCACTGTGGTCAAGGCCT TCAACGTCATCTCTGCATGGGCCCTACAGGCTGGCCCAAGG GATGGGAACAGGCAGGTGCTCATCTGCGGTGACCAGCTG GAAGCCAAGCACCGTCTCAGAGATGGCGCGCGCCATGG GTTTCACCCCACTGGACATGGGATCCCTGGCCTCAGCGAG GGAGGTAGAGGCCATACCCCTGCGCCTCCTTCCATCCTGGA AGGTGCCCACCCTCCTGGCCCCTGGGGCTAAGCACACAA



GCTATGCCTACAACTTCATCCGGGACGTTCTACAGCCGTACA TCCGGAAAGATGAGAACAAGTTCTACAAGATGCCCCTG TCTGTGGTCAACACCACGaTACCCTGTGTGGCTTACGTGCTG CTGTCCCTGGTTTACCTGCCTGGTGTGCTGCCAGCTGC CCTTCAGCTGAGGAGGGGGACCAAGTACCAGCGCTTCCCAG ACTGGCTGGACCATTGGCTGCAGCACCGCAAGCAGATCG CTGGTCAACCTGGCTGTGAAGCAGGTCCTGGCCAACAAGAG CCGCCTCTGGGTTGAGGAAGAAGTCTGGCGGATGGAGAT ATACCTGTCCCTGGGTGTGCTGGCTCTGGGCATGCTGTCACT GCTGGCGGTTACCTCGATCCCTTCCATTGCAAACTCAC TCAACTGGAAGGAGTTCAGCTTTGTGCAGTCCACGCTGGGC TTCGTGGCCCTGATGCTGAGCACAATGCACACCCTCACC TACGCGCTGGACCCGTGCTTTTGAGGAAAACCACTACAAGTTC TACCTGCCACCCACATTCACGCTCACGCTGCTCCTGCC CTGTGTCATCATCCTGGCCAAGGGCCTCTTCCTCCTGCCCTG CCTCAGCCACAGACTCACCAAGATCCGCAGGGGCTGGG AGAGGGATGGTGCCGTCAAGTTCATGCTGCCCGCTGGCCAC ACACAGGGGGAGAAAACAAGCCACGTGTGAGGCCCTGGA TCGGGTCTCTTTTCTGGGATGGTATATGCGTGGGTGGCCG AGGTCTGAATTTCTGGGATGCAGGTGTATGCCGAGATACTCA GAATGGCGTACCACACATGCGATAAGAGCTCACATATA ATAGTGGGTCCTTATATTTCAACTTATGCAGGGTCC CTATATTTCAACTTGAGCATTTCAGAGCAAATGCCACACATTA AACAGCAGATCCCACCCTTGTGGTAGCTGCAGAGACA GACAGAAACTTCTGGTtATGAGAGAGACTGTATTTTGTTGGAT TCTACCTTTAATCCCCGTTCTCTACGTTcCCCCTGTTA GCCACATCTTAACGTTGGTGCAGAGCTGGGACAAGAGCTGG CTCTGGTGCAGCCTCCCCCATCCCAGGGCTAGGAAACAA GCCTCTGATGAACAGAGGGACCAGGTCTGGACCCTCCTGCT CCCGCTTCCCTGGGCTCGAGTGGGGAGGCTCAGCGGGAT CCCCCGCAATCTGTGCAGGAGTTTTCACAGGTCTGTCCTTTC TTCCGGGAGCGGTCTGAAGCGGCCCCATCTGATCCTAG CTGAGCCGAGATTGTTCCCCACTCCCTGAAAGTCCAGAGTCA CCGTGGAGCCTGCAAATTGCTCCTTCTGCGAAGGTGTG AAGTCACCGTCTCACCAGAGCCATTAACGAACCTGATCTTCA GAAGAAGCATAATTGTTTCCCCTCCATTAAGTTGGTGG TGACCCTCTTTAAACCACTGTGCCTTCTCGCCTTTCCCATCAC TAATTTGGGCATCTCCATGGAGTGGACTCTTGTCGGG GCAGTTCAGGGGGGAGGGAAGCATTAGAGATTGCGGAGAA TAACCATCGAAGCCTCCCTTGGATGTTCCCAGGCGTGCCT



TCATTAAATTGGTCCCTAATGAGAATGACAGGGGACCCCTGT
TGCCTGTaTGCAGAGAACCAGCCTTCTGAGCACCCAGG
AAACACAGTGGCCCCACGCCCTTCAGGGGGGTCCCACGTCC
CCTTTCCCATGCTTTTGCCTCCCTCCCTCCCGGTTACAA
TCAACCATAAAAGTCTGCAAATATTGTTTTTTTGAATTATCAAG
CTTATCGATACCGTCGAAACTTGTTTATTGCAGCTTA
TAATGGTTACAAATAAAGCAATAGCATCACAAATTTCACAAAT
AAAGCATTTTTTTCACTGCATTCTAGTTGTGGTTTGT
CCAAACTCATCAATGTATCTTATCATGTCTGGATCCGACCTCG

SECUENCE OF REGION B OF AdRSVpHyde:

ATCTGGAAGGTGCTGAGGTACGATGAGACCCGCACCAGGTG CAGACCCTGCGAGTGTGGCGGTAAACATATTAGGAACCA GCCTGTGATGCTGGATGTGACCGAGGAGCTGAGGCCCGATC ACTTGGTGCTGGCCTGCACCCGCGCTGAGTTTGGCTCTA GCGATGAAGATACAGATTGAGGTACTGAAATGTGTGGGCGT GGCTTAAGGGTGGGAAAGAATATATAAGGTGGGGGTCTT ATGTAGTTTTGTATCTGTTTTGCAGCAGCCGCCGCCGCCATG AGCACCAACTCGTTTGATGGAAGCATTGTGAGCTCATA TTTGACAACGCGCATGCCCCCATGGGCCGGGGTGCGTCAGA ATGTGATGGGCTCCAGCATTGATGGTCGCCCCGTCCTGC CCGCAAACTCTACTACCTTGACCTACGAGACCGTGTCTGGAA CGCCGTTGGAGACTGCAGCCTCCGCCGCCGCTTCAGCC GCTGCAGCCACCGCCGCGGGATTGTGACTGACTTTGCTTTC CTGACCCGCTTGCAAGCAGTGCAGCTTCCCGTTCATC CGCCCGCGATGACAAGTTGACGGCTCTTTTGGCACAATTGG ATTCTTTGACCCGGGAACTTAATGTCGTTTCTCAGCAGC TGTTGGATCTGCGCCAGCAGGTTTCTGCCCTGAAGGCTTCCT CCCCTCCCAATGCGGTTTAAAACATAAATAAAAAACCA GACTCTGTTTGGATTTGGATCAAGCAAGTGTCTTGCTGTCTTT ATTTAGTGGGTTTTGCGCGCGCGGTAGGCCCGGGACCA GCGGTCTCGGTCGTTGAGGGTCCTGTGTATTTTTTCCAGGAC GTGGTAAAGGTGACTCTGGATGTTCAGATACATGGGCA TAAGCCCGTCTCTGGGGTGGAGGTAGCACCACTGCAGAGCT TCATGCTGCGGGGTGGTGTTGTAGATGATCCAGTCGTAG CAGGAGCGCTGGGCGTGCCTAAAAATGTCTTTCAGTAG CAAGCTTATTGCCAGGGGCAGGCCCTTGGTGTAAGTGTT TACAAAGCGGTTAAGCTGGGATGGGGGCATACGTGGGGATA TGAGATGCATCTTGGACTGTATTTTTAGGTTGGCTATGT TCCCAGCCATATCCCTCCGGGGATTCATGTTGTGCAGAACCA CCAGCACAGTGTATCCGGTGCACTTGGGAAATTTGTCA TGTAGCTTAGAAGGAAATGCGTGGAAGAACTTGGAGACGCC CTTGTGACCTCCAAGATTTTCCATGCATTCGTCCATAAT GATGGCAATGGGCCCACGGGCGGCGGCCTGGGCGAAGATA TTTCTGGGATCACTAACGGCATAGTTGTGTTCCAGGATGA



GATCGTCATAGGCCATTTTTACAAAGCGCGGGCGGAGGGTG CCAGACTGCGGTATAATGGTTCCATCCGGCCCAGGGGCG TAGTTACCCTCACAGATTTGCATTTCCCACGCTTTGAGTTCAG ATGGGGGGATCATGTCTACCTGCGGGGCGATGAAGAA AACGGTTTCCGGGGTAGGGGAGATCAGCTGGGAAGAAAGC AGGTTCCTGAGCAGCTGCGACTTACCGCAGCCGGTGGGCC GCTAAATCACACCTATTACCGGGTGCAACTGGTAGTTAAGAG AGCTGCAGCTGCCGTCATCCCTGAGCAGGGGGGCCACT TCGTTAAGCATGTCCCTGACTCGCATGTTTTCCCTGACCAAAT CCGCCAGAAGGCGCTCGCCGCCCAGCGATAGCAGTTC TTGCAAGGAAGCAAAGTTTTTCAACGGTTTGAGACCGTCCGC CGTAGGCATGCTTTTGAGCGTTTGACCAAGCAGTTCCA GGCGGTCCCACAGCTCGGTCACCTGCTCTACGGCATCTCGA TCCAGCATATCTCCTCGTTTCGCGGGTTGGGGCGGCTTT CGCTGTACGGCAGTAGTCGGTGCTCGTCCAGACGGGCCAGG GTCATGTCTTTCCACGGGCGCAGGGTCCTCGTCAGCGTA GTCTGGGTCACGGTGAAGGGGTGCGCTCCGGGCTGCGCGC TGGCCAGGGTGCGCTTGAGGCTGGTCCTGCTGGTGCTGAA GCGCTGCCGGTCTTCGCCCTGCGCGTCGGCCAGGTAGCATT TGACCATGGTGTCATAGTCCAGCCCCTCCGCGGCGTGGC CCTTGGCGCGCAGCTTGCCCTTGGAGGAGGCGCCGCACGA GGGGCAGTGCAGACTTTTGAGGGCGTAGAGCTTGGGCGCG AGAAATACCGATTCCGGGGAGTAGGCATCCGCGCCGACGGC CCCGCAGACGGTCTCGCATTCCACGAGCCAGGTGAGCTC TGGCCGTTCGGGGTCAAAAACCAGGTTTCCCCCCATGCTTTTT GATGCGTTTCTTACCTCTGGTTTCCATGAGCCGGTGTC CACGCTCGGTGACGAAAAGGCTGTCCGTGTCCCCGTATACA GACTTGAGAGGCCTGTCCTAGAGCGGTGTTCCGCGGTCC TCCTCGTATAGAAACTCGGACCACTCTGAGACAAAGGCTCGC GTCCAGGCCAGCACGAAGGAGGCTAAGTGGGAGGGGTA GCGGTCGTTGTCCACTAGGGGGTCCACTCGCTCCAGGGTGT GAAGACACATGTCGCCCTCTTCGGCATCAAGGAAGGTGA TTGGTTTGTAGGTGTAGGCCACGTGACCGGGTGTTCCTGAA GGGGGGCTATAAAAGGGGGGTGGGGGCGCGTTCGTCCTAC CTCTCTTCCGCATCGCTGTCTGCGAGGGCCAGCTGTTGGGG TGAGTACTCCCTCTGAAAAGCGGGCATGACTTCTGCGCT **AAGATTGTCAGTTTCCAAAAACGAGGAGGATTTGATATTCAC** CTGGCCCGCGTTGATGCCTTTGAGGGTGGCCGCATCCA TCTGGTCAGAAAAGACAATCTTTTTGTTGTCAAGCTTGGTGG CAAACGACCCGTAGAGGGCGTTGGACAGCAACTTGGCG ATGGAGCGCAGGGTTTGGTTTTTGTCGCGATCGGCGCGCTC CTTGGCCGCGATGTTTAGCTGCACGTATTCGCGCGCAAC GCACCGCCATTCGGGAAAGACGGTGGTGCGCTCGTCGGGC ACCAGGTGCACGCGCCAACCGCGGTTGTGCAGGGTGACAA GGTCAACGCTGGTGGCTACCTCTCGCGCTAGGCGCTCGTTG GTCCAGCAGAGGCGGCCGCCCTTGCGCGAGCAGAATGGC



GGTAGGGGGTCTAGCTGCGTCTCGTCCGGGGGGGTCTGCGTC CACGGTAAAGACCCCGGGCAGCAGCAGCGCGCGTCGAAGTA GTCTATCTTGCATCCTTGCAAGTCTAGCGCCTGCTGCCATGC GCGGGCGCAAGCGCGCGCTCGTATGGGTTGAGTGGGG GACCCCATGGCATGGGGTGGGTGAGCGCGGAGGCGTACAT GCCGCAAATGTCGTAAACGTAGAGGGGCTCTCTGAGTATT CCAAGATATGTAGGGTAGCATCTTCCACCGCGGATGCTGGC GCGCACGTAATCGTATAGTTCGTGCGAGGGAGCGAGGAG GTCGGGACCGAGGTTGCTACGGGCGGGCTGCTCTGCTCGG AAGACTATCTGCCTGAAGATGGCATGTGAGTTAAATGATA TGGTTGGACGCTGGAAGACGTTGAAGCTGGCGTCTGTGAGA CCTACCGCGTCACGCACGAAGGAGGCGTAGGAGTCGCGC AGCTTCTTGACCAGCTCGGCGGTGACCTGCACGTCTAGGGC GCAGTAGTCCAGGGTTTCCTTGATGATGTCATACTTATC CTGTCCCTTTTTTTTCCACAGCTCGCGGTTGAGGACAAACTCT TCGCGGTCTTTCCAGTACTCTTGGATCGGAAACCCGT CGGCCTCCGAACGGTAAGAGCCTAGCATGTAGAACTGGTTG AGGGCCTGGTAGGCGCAGCATCCCTTTTCTACGGGTAGC GCGTATGCCTGCGCGGCCTTCCGGAGCGAGGTGTGGGTGA GCGCAAAGGTGTCCCTGACCATGACTTTGAGGTACTGGTA TTTGAAGTCAGTGTCGTCGCATCCGCCCTGCTCCCAGAGCAA AAAGTCCGTGCGCTTTTTGGAACGCGGATTTGGCAGGG CGAAGGTGACATCGTTGAAGAGTATCTTTCCCGCGCGAGGC ATAAAGTTGCGTGTGATGCGGAAGGGTCCCGGCACCTCG GAACGGTTGTTAATTACCTGGGCGGCGAGCACGATCTCGTT AAAGCCGTTGATGTTGTGGCCCACAATGTAAAGTTCCAA GAAGCGCGGGATGCCCTTGATGGAAGGCAATTTTTTAAGTTC CTCGTAGGTGAGCTCTTCAGGGGAGCTGAGCCCGTGCT CTGAAAGGGCCCAGTCTGCAAGATGAGGTGTGGAAGCGAC GAATGAGCTCCACAGGTCACGGGCCATTAGCATTTGCAGG TGGTCGCGAAAGGTCCTAAACTGGCGACCTATGGCCATTTTT TCTGGGGTGATGCAGTAGAAGGTAAGCGGGTCTTGTTC CCAGCGGTCCCATCCAAGGTTCGCGGCTAGGTCTCGCGCGG CAGTCACTAGAGGCTCATCTCCGCCGAACTTCATGACCA GCATGAAGGCCACGAGCTGCTTCCCAAAGGCCCCCATCCAA GTATAGGTCTCTACATCGTAGGTGACAAAGAGACGCTCG GTGCGAGGATGCGAGCCGATCGGGAAGAACTGGATCTCCC GCCACCAATTGGAGGAGTGGCTATTGATGTGGTGAAAGTA GAAGTCCCTGCGACGGGCCGAACACTCGTGCTGGCTTTTGT AAAAACGTGCGCAGTACTGGCAGCGGTGCACGGGCTGTA CATCCTGCACGAGGTTGACCTGACGACCGCGCACAAGGAAG CAGAGTGGGAATTTGAGCCCCTCGCCTGGCGGGTTTGGC TGGTGGTCTTCTACTTCGGCTGCTTGACCTTGACCGTCTGGC TGCTCGAGGGGAGTTACGGTGGATCGGACCACCACGCC GCGCGAGCCCAAAGTCCAGATGTCCGCGCGCGCGGCGGTCGG **AGCTTGATGACAACATCGCGCAGATGGGAGCTGTCCATGG**



GCGCGCGTAGGTTGCTGGCGAACGCGACGACGCGGCGGTT GATCTCCTGAATCTGGCGCCTCTGCGTGAAGACGACGGGC CCGGTGAGCTTGAGCCTGAAAGAGAGTTCGACAGAATCAAT TTCGGTGTCGTTGACGGCGGCCTGGCGCAAAATCTCCTG CACGTCTCCTGAGTTGTCTTGATAGGCGATCTCGGCCATGAA CTGCTCGATCTCTTCCTCCTGGAGATCTCCGCGTCCGG CTCGCTCCACGGTGGCGGCGAGGTCGTTGGAAATGCGGGC CATGAGCTGCGAGAAGGCGTTGAGGCCTCCCTCGTTCCAG ACGCGGCTGTAGACCACGCCCCCTTCGGCATCGCGGGCGCG CATGACCACCTGCGCGAGATTGAGCTCCACGTGCCGGGC GAAGACGGCGTAGTTTCGCAGGCGCTGAAAGAGGTAGTTGA GGGTGGTTGGCGGTGTGTTCTGCCACGAAGAAGTACATAA CCCAGCGTCGCAACGTGGATTCGTTGATATCCCCCAAGGCCT CAAGGCGCTCCATGGCCTCGAGGAAGTCCAAGGCGAAG TTGAAAAACTGGGAGTTGCGCGCCGACACGGTTAACTCCTC CTCCAGAAGACGGATGAGCTCGGCGACAGTGTCGCGCAC CTCGCGCTCAAAGGCTACAGGGGCCTCTTCTTCTTCAAT CTCCTCTTCCATAAGGGCCTCCCCTTCTTCTTCTTCTG GCGGCGGTGGGGAGGGGGGGACACGGCGACGACGGC GCACCGGGAGGCGGTCGACAAAGCGCTTCGATCATCTCCCCG CGGCGACGCCCATGGTCTCGGTGACGGCGCCGGCCGTTCT CGCGGGGGCGCAGTTGGAAGACGCCGCCCGTCATGTCCCG GTTATGGGTTGGCGGGGGGGCTGCCATGCGGCAGGGATACG GCGCTAACGATGCATCTCAACAATTGTTGTGTAGGTACTC CGCCGCCGAGGGACCTGAGCGAGTCCGCATCGACCGGATC GGAAAACCTCTCGAGAAAGGCGTCTAACCAGTCACAGTCG CAAGGTAGGCTGAGCACCGTGGCGGGCGGCAGCGGGCGGC GGTCGGGGTTGTTTCTGGCGGAGGTGCTGCTGATGATGTA ATTAAAGTAGGCGGTCTTGAGACGGCGGATGGTCGACAGAA GCACCATGTCCTTGGGTCCGGCCTGCTGAATGCGCAGGC GGTCGGCCATGCCCCAGGCTTCGTTTTGACATCGGCGCAGG TCTTTGTAGTAGTCTTGCATGAGCCTTTCTACCGGCACT TCTTCTTCTCCTCTTGTCCTGCATCTCTTGCATCTATCGC TGCGGCGGCGGCGGAGTTTGGCCGTAGGTGGCGCCC TCTTCCTCCCATGCGTGTGACCCCGAAGCCCCTCATCGGCTG AAGCAGGGCTAGGCTGGCGACAACGCGCTCGGCTAATA TGGCCTGCTGCACCTGCGTGAGGGTAGACTGGAAGTCATCC



ATGTCCACAAAGCGGTGGTATGCGCCCGTGTTGATGGTG TAAGTGCAGTTGGCCATAACGGACCAGTTAACGGTCTGGTG ACCCGGCTGCGAGAGCTCGGTGTACCTGAGACGCGAGTA **AGCCCTCGAGTCAAATACGTAGTCGTTGCAAGTCCGCACCA** GGTACTGGTATCCCACCAAAAAGTGCGGCGGCGGCTGGC GGTAGAGGGCCAGCGTAGGGTGGCCGGGGCTCCGGGGG CGAGATCTTCCAACATAAGGCGATGATAATCCGTAGATGTAC CTGGACATCCAGGTGATGCCCGGCGGCGGTGGTGGAGGCGC GCGGAAAGTCGCGGACGCGGTTCCAGATGTTGCGCAGCGG CAAAAAGTGCTCCATGGTCGGGACGCTCTGGCCGGTCAGGC GCGCGCAATCGTTGACGCTCTACCGTGCAAAAGGAGAGC CTGTAAGCGGGCACTCTTCCGTGGTCTGGTGGATAAATTCGC AAGGGTATCATGGCGGACGACCGGGGTTCGAGCCCCGT ATCCGGCCGTCCGCCGTGATCCATGCGGTTACCGCCCGCGT GTCGAACCCAGGTGTGCGACGTCAGACAACGGGGGAGTG CTCCTTTTGGCTTCCTTCCAGGCGCGGCGGCTGCTGCGCTAG CTTTTTTGGCCACTGGCCGCGCGCAGCGTAAGCGGTTA GGCTGGAAAGCGAAAGCATTCCGTGGCTCGCTCCCTGTAGC CGGAGGGTTATTTCCAAGGGTTGAGTCGCGGGACCCCC GGTTCGAGTCTCGGACCGGCCGGACTGCGGCGAACGGGGG TTTGCCTCCCCGTCATGCAAGACCCCGCTTGCAAATTCCT CCGGAAACAGGGACGAGCCCCTTTTTTTGCTTTTCCCAGATGC ATCCGGTGCTGCGGCAGATGCGCCCCCCCCCCCCAGCAG CGGCAAGAGCAAGAGCAGCGGCAGACATGCAGGGCACCCT CCCCTCCTACCGCGTCAGGAGGGGCGACATCCGCGGT TGACGCGGCAGCAGATGGTGATTACGAACCCCCGCGGCGCCC GGGCCCGGCACTACCTGGACTTGGAGGAGGGCGAGGGCC TGGCGCGGCTAGGAGCGCCCTCTCCTGAGCGGTACCCAAGG GTGCAGCTGAAGCGTGATACGCGTGAGGCGTACGTGCCG AGGCAGAACCTGTTTCGCGACCGCGAGGGAGAGGAGCCCG AGGAGATGCGGGATCGAAAGTTCCACGCAGGGCGCGAGCT GCGGCATGGCCTGAATCGCGAGCGGTTGCTGCGCGAGGAT GACTTTGAGCCCGACGCGCGAACCGGGATTAGTCCCGCGC GCGCACACGTGGCGGCCGCCGACCTGGTAACCGCATACGA GCAGACGGTGAACCAGGAGATTAACTTTCAAAAAAGCTTT AACAACCACGTGCGTACGCTTGTGGCGCGCGAGGAGGTGG CTATAGGACTGATGCATCTGTGGGACTTTGATTGCGCGCT GGAGCAAAACCCAAATAGCAAGCCGCTCATGGCGCAGCTGT TCCTTATAGTGCAGCACAGCAGGGACAACGAGGCATTCA GGGATGCGCTGCTAAACATAGTAGAGCCCGAGGGCCGCTG GCTGCTCGATTTGATAAACATCCTGCAGAGCATAGTGGTG CAGGAGCGCAGCTTGAGCCTGGCTGACAAGGTGGCCGCCAT CAACTATTCCATGCTTAGCCTGGGCAAGTTTTACGCCCG CAAGATATACCATACCCCTTACGTTCCCATAGACAAGGAGGT AAAGATCGAGGGGTTCTACATGCGCATGGCGCTGAAGG TGCTTACCTTGAGCGACGACCTGGGCGTTTATCGCAACGAG



CGCATCCACAAGGCCGTGAGCGTGAGCCGGCGCGCGAG CTCAGCGACCGCGAGCTGATGCACAGCCTGCAAAGGGCCCT GGCTGGCACGGCAGCGCGATAGAGAGGCCGAGTCCTA CTTTGACGCGGGCGCTGACCTGCGCTGGGCCCCAAGCCGAC GCGCCCTGGAGGCAGCTGGGGCCGGACCTGGGCTGGCGG TGGCACCCGCGCGCGCTGGCAACGTCGGCGCGTGGAGGA ATATGACGAGGACGATGAGTACGAGCCAGAGGACGGCGAG TACTAAGCGGTGATGTTTCTGATCAGATGATGCAAGACGCAA CGGACCCGGCGGTGCGGGCGCGCTGCAGAGCCAGCCG TCCGGCCTTAACTCCACGGACGACTGGCGCCAGGTCATGGA CCGCATCATGTCGCTGACTGCGCGCAATCCTGACGCGTT CCGGCAGCAGCCGCAGGCCAACCGGCTCTCCGCAATTCTGG AAGCGGTGGTCCCGGCGCGCGCAAACCCCCACGCACGAGA AGGTGCTGGCGATCGTAAACGCGCTGGCCGAAAACAGGGC CATCCGGCCCGACGAGGCCGGCCTGGTCTACGACGCGCTG CTTCAGCGCGTGGCTCGTTACAACAGCGGCAACGTGCAGAC CAACCTGGACCGGGCTGGTGGGGGATGTGCGCGAGGCCGT GGCGCAGCGTGAGCGCGCGCAGCAGCAGGGCAACCTGGGC TCCATGGTTGCACTAAACGCCTTCCTGAGTACACAGCCCG CCAACGTGCCGCGGGGACAGGAGGACTACACCAACTTTGTG AGCGCACTGCGGCTAATGGTGACTGAGACACCGCAAAGT GAGGTGTACCAGTCTGGGCCAGACTATTTTTTCCAGACCAGT AGACAAGGCCTGCAGACCGTAAACCTGAGCCAGGCTTT CAAAAACTTGCAGGGGCTGTGGGGGGTGCGGGCTCCCACA GGCGACCGCGACCGTGTCTAGCTTGCTGACGCCCAACT CGCGCCTGTTGCTGCTAATAGCGCCCTTCACGGACAGT GGCAGCGTGTCCCGGGACACATACCTAGGTCACTTGCTG ACACTGTACCGCGAGGCCATAGGTCAGGCGCATGTGGACGA GCATACTTTCCAGGCGCTTACAAGTGTCAGCCGCGCGCT GGGGCAGGAGACACGGGCAGCCTGGAGGCAACCCTAAAC TACCTGCTGACCAACCGGCGGCAGAAGATCCCCTCGTTGC ACAGTTTAAACAGCGAGGAGGAGCGCATTTTGCGCTACGTG CAGCAGAGCGTGAGCCTTAACCTGATGCGCGACGGGGTA ACGCCCAGCGTGGCGCTGGACATGACCGCGCGCAACATGG AACCGGGCATGTATGCCTCAAACCGGCCGTTTATCAACCG CCTAATGGACTACTTGCATCGCGCGGCCGCCGTGAACCCCG AGTATTTCACCAATGCCATCTTGAACCCGCACTGGCTAC CGCCCCTGGTTTCTACACCGGGGGATTCGAGGTGCCCGAG GGTAACGATGGATTCCTCTGGGACGACATAGACGACAGC GTGTTTTCCCCGCAACCGCAGACCCTGCTAGAGTTGCAACAG CGCGAGCAGGCAGAGGCGCGCTGCGAAAGGAAAGCTT CCGCAGGCCAAGCAGCTTGTCCGATCTAGGCGCTGCGGCCC CGCGGTCAGATGCTAGTAGCCCATTTCCAAGCTTGATAG GGTCTCTTACCAGCACTCGCACCACCCGCCCGCGCCTGCTG GGCGAGGAGGAGTACCTAAACAACTCGCTGCTGCAGCCG CAGCGCGAAAAAACCTGCCTCCGGCATTTCCCAACAACGG



GATAGAGAGCCTAGTGGACAAGATGAGTAGATGGAAGAC GTACGCGCAGGAGCACAGGGACGTGCCAGGCCCGCGCCCG CCCACCCGTCGTCAAAGGCACGACCGTCAGCGGGGTCTGG TGTGGGAGGACGATGACTCGGCAGACGACAGCAGCGTCCT GGATTTGGGAGGGAGTGGCAACCCGTTTGCGCACCTTCGC CCCAGGCTGGGGAGAATGTTTTAAAAAAAAAAAAAGCATGAT GCAAAATAAAAACTCACCAAGGCCATGGCACCGAGCGT TGGTTTTCTTGTATTCCCCTTAGTATGCGGCGCGCGCGATG TATGAGGAAGGTCCTCCTCCTCCTACGAGAGTGTGGT GAGCGCGGCCAGTGGCGGCGCGCTGGGTTCTCCCTTC GATGCTCCCCTGGACCCGCCGTTTGTGCCTCCGCGGTACC TGCGGCCTACCGGGGGGAGAAACAGCATCCGTTACTCTGAG TTGGCACCCCTATTCGACACCACCCGTGTGTACCTGGTG GACAACAAGTCAACGGATGTGGCATCCCTGAACTACCAGAA CGACCACAGCAACTTTCTGACCACGGTCATTCAAAACAA TGACTACAGCCCGGGGGAGGCAAGCACACAGACCATCAATC TTGACGACCGGTCGCACTGGGGCGGCGACCTGAAAACCA TCCTGCATACCAACATGCCAAATGTGAACGAGTTCATGTTTA CCAATAAGTTTAAGGCGCGGGTGATGGTGTCGCGCTTG CCTACTAAGGACAATCAGGTGGAGCTGAAATACGAGTGGGT GGAGTTCACGCTGCCCGAGGGCAACTACTCCGAGACCAT GACCATAGACCTTATGAACAACGCGATCGTGGAGCACTACTT GAAAGTGGGCAGACAGAACGGGGTTCTGGAAAGCGACA TCGGGGTAAAGTTTGACACCCGCAACTTCAGACTGGGGTTT GACCCCGTCACTGGTCTTGTCATGCCTGGGGTATATACA AACGAAGCCTTCCATCCAGACATCATTTTGCTGCCAGGATGC GGGGTGGACTTCACCCACAGCCGCCTGAGCAACTTGTT GGGCATCCGCAAGCGGCAACCCTTCCAGGAGGGCTTTAGGA TCACCTACGATGATCTGGAGGGTGGTAACATTCCCGCAC TGTTGGATGTGGACGCCTACCAGGCGAGCTTGAAAGATGAC ACCGAACAGGCGGGGGGGGCGCAGCAACAGC AGTGGCAGCGGCGCGGAAGAGAACTCCAACGCGGCAGCCG CGGCAATGCAGCCGGTGGAGGACATGAACGATCATGCCAT TCGCGGCGACACCTTTGCCACACGGGCTGAGGAGAAGCGC GCTGAGGCCGAAGCAGCGGCCGAAGCTGCCGCCCCCGCTG CGCAACCCGAGGTCGAGAAGCCTCAGAAGAAACCGGTGATC AAACCCCTGACAGAGGACAGCAAGAAACGCAGTTACAAC CTAATAAGCAATGACAGCACCTTCACCCAGTACCGCAGCTGG TACCTTGCATACAACTACGGCGACCCTCAGACCGGAAT CCGCTCATGGACCCTGCTTTGCACTCCTGACGTAACCTGCGG CTCGGAGCAGGTCTACTGGTCGTTGCCAGACATGATGC AAGACCCCGTGACCTTCCGCTCCACGCGCCAGATCAGCAAC TTTCCGGTGGTGGGCGCCGAGCTGTTGCCCGTGCACTCC AAGAGCTTCTACAACGACCAGGCCGTCTACTCCCAACTCATC CGCCAGTTTACCTCTCTGACCCACGTGTTCAATCGCTT TCCCGAGAACCAGATTTTGGCGCGCCCGCCAGCCCCCACCA



TCACCACCGTCAGTGAAAACGTTCCTGCTCTCACAGATC ACGGGACGCTACCGCTGCGCAACAGCATCGGAGGAGTCCA GCGAGTGACCATTACTGACGCCAGACGCCGCACCTGCCCC TACGTTTACAAGGCCCTGGGCATAGTCTCGCCGCGCGTCCTA TCGAGCCGCACTTTTTGAGCAAGCATGTCCATCCTTAT ATCGCCCAGCAATAACACAGGCTGGGGCCTGCGCTTCCCAA GCAAGATGTTTGGCGGGGCCAAGAAGCGCTCCGACCAAC ACCCAGTGCGCGTGCGCGGGCACTACCGCGCGCCCTGGGG CGCGCACAAACGCGGCCGCACTGGGCGCACCACCGTCGAT GACGCCATCGACGCGGTGGTGGAGGAGGCGCGCAACTACA CGCCCACGCCGCCACCAGTGTCCACAGTGGACGCGGCCAT TCAGACCGTGGTGCGCGGAGCCCGGCGCTATGCTAAAATGA GACCCGGCACTGCCGCCCAACGCGCGGCGGCGGCCCTGCT TAACCGCGCACGTCGCACCGGCCGACGGCCGGCCATGCGG GCCGCTGCAAGGCTGGCCGCGGGTATTGTCACTGTGCCCCC CAGGTCCAGGCGACGAGCGGCGCCGCAGCAGCCGCGGC CATTAGTGCTATGACTCAGGGTCGCAGGGGCAACGTGTATT GGGTGCGCGACTCGGTTAGCGGCCTGCGCGTGCCCGTGC GCACCCGCCCCCGCGCAACTAGATTGCAAGAAAAACTAC TTAGACTCGTACTGTTGTATGTATCCAGCGGCGGCGGCG CGCAACGAAGCTATGTCCAAGCGCAAAATCAAAGAAGAGAT GCTCCAGGTCATCGCGCCGGAGATCTATGGCCCCCCGAA GAAGGAAGAGCAGGATTACAAGCCCCGAAAGCTAAAGCGG GTCAAAAAGAAAAGAAAGATGATGATGAACTTGACG ACGAGGTGGAACTGCTGCACGCTACCGCGCCCAGGCGACG GGTACAGTGGAAAGGTCGACGCGTAAAACGTGTTTTGCGA CCCGGCACCACCGTAGTCTTTACGCCCGGTGAGCGCTCCAC CCGCACCTACAAGCGCGTGTATGATGAGGTGTACGGCGA CGAGGACCTGCTTGAGCAGGCCAACGAGCGCCTCGGGGAG TTTGCCTACGGAAAGCGGCATAAGGACATGCTGGCGTTGC CGCTGGACGAGGCAACCCAACACCTAGCCTAAAGCCCGTA ACACTGCAGCAGGTGCTGCCCGCGCTTGCACCGTCCGAA GAAAAGCGCGGCCTAAAGCGCGAGTCTGTTGACTTGGCACC CACCGTGCAGCTGATGGTACCCAAGCGCCAGCGACTGGA AGATGTCTTGGAAAAAATGACCGTGGAACCTGGGCTGGAGC CCGAGGTCCGCGTGCGGCCAATCAAGCAGGTGGCGCCGG GACTGGGCGTGCAGACCGTGGACGTTCAGATACCCACTACC AGTAGCACCAGTATTGCCACCGCCACAGAGGGCATGGAG ACACAAACGTCCCCGGTTGCCTCAGCGGTGGCGGATGCCGC GGTGCAGGCGGTCGCTCCGGCCGCGTCCAAGACCTCTAC GGAGGTGCAAACGGACCCGTGGATGTTTCGCGTTTCAGCCC CCCGGCGCCCGCGGTTCGAGGAAGTACGGCGCCGCCA GCGCGCTACTGCCCGAATATGCCCTACATCCTTCCATTGCGC CTACCCCGGCTATCGTGGCTACACCTACCGCCCCAGA AGACGAGCAACTACCCGACGCCGAACCACCACTGGAACCCG



CCGCCGCCGTCGCCGTCGCCAGCCCGTGCTGGCCCCGAT TTCCGTGCGCAGGGTGGCTCGCGAAGGAGGCAGGACCCTG GTGCTGCCAACAGCGCGCTACCACCCCAGCATCGTTTAAA AGCCGGTCTTTGTGGTTCTTGCAGATATGGCCCTCACCTGCC GCCTCCGTTTCCCGGTGCCGGGATTCCGAGGAAGAATG CACCGTAGGAGGGGCATGGCCGGCCACGGCCTGACGGCCG GCATGCGTCGTGCGCACCACCGGCGCGCGCGCGCGCCA CCGTCGCATGCGCGGCGGTATCCTGCCCCTCCTTATTCCACT GATCGCCGCGCGATTGGCGCCGTGCCCGGAATTGCAT CCGTGGCCTTGCAGGCGCAGAGACACTGATTAAAAACAAGT TGCATGTGGGAAAAATCAAAATAAAAAGTCTGGACTCTCA CGCTCGCTTGGTCCTGTAACTATTTTGTAGAATGGAAGACAT CAACTTTGCGTCTCTGGCCCCGCGACACGGCTCGCGCC CGTTCATGGGAAACTGGCAAGATATCGGCACCAGCAATATG AGCGGTGGCGCCTTCAGCTGGGGCTCGCTGTGGAGCGGC ATTAAAAATTTCGGTTCCACCGTTAAGAACTATGGCAGCAAG GCCTGGAACAGCAGCACAGGCCAGATGCTGAGGGATAA GTTGAAAGAGCAAAATTTCCAACAAAAGGTGGTAGATGGCC TGGCCTCTGGCATTAGCGGGGTGGTGGACCTGGCCAACC AGGCAGTGCAAAATAAGATTAACAGTAAGCTTGATCCCCGCC CTCCCGTAGAGGAGCCTCCACCGGCCGTGGAGACAGTG TCTCCAGCGGGGCGTGGCGAAAAGCGTCCGCGCCCCGACA GTACGAGGAGGCACTAAAGCAAGGCCTGCCCACCACCCGTC CCATCGCGCCCATGGCTACCGGAGTGCTGGGCCAGCACA CACCCGTAACGCTGGACCTGCCTCCCCCCGCCGACACCCAG CAGAAACCTGTGCTGCCAGGCCCGACCGCCGTTGTTGTA ACCCGTCCTAGCCGCGCGTCCCTGCGCCGCCGCCCAGCGG TCCGCGATCGTTGCGGCCCGTAGCCAGTGGCAACTGGCA AAGCACACTGAACAGCATCGTGGGTCTGGGGGTGCAATCCC TGAAGCGCCGACGATGCTTCTGAATAGCTAACGTGTCGT ATGTGTGTCATGTATGCGTCCATGTCGCCGCCAGAGGAGCT GCTGAGCCGCCGCGCCCGCTTTCCAAGATGGCTACCC CTTCGATGATGCCGCAGTGGTCTTACATGCACATCTCGGGCC AGGACGCCTCGGAGTACCTGAGCCCCGGGCTGGTGCAG TTTGCCCGCGCCACCGAGACGTACTTCAGCCTGAATAACAAG TTTAGAAACCCCACGGTGGCGCCTACGCACGACGTGAC CACAGACCGGTCCCAGCGTTTGACGCTGCGGTTCATCCCTGT GGACCGTGAGGATACTGCGTACTCGTACAAGGCGCGGT TCACCCTAGCTGTGGGTGATAACCGTGTGCTGGACATGGCTT CCACGTACTTTGACATCCGCGGCGTGCTGGACAGGGGC CCTACTTTTAAGCCCTACTCTGGCACTGCCTACAACGCCCTG GCTCCCAAGGGTGCCCCAAATCCTTGCGAATGGGATGA AGCTGCTACTGCTCTTGAAATAAACCTAGAAGAAGAGGACG ATGACAACGAAGACGAAGTAGACGAGCAAGCTGAGCAGC AAAAAACTCACGTATTTGGGCAGGCGCCTTATTCTGGTATAA



ATATTACAAAGGAGGGTATTCAAATAGGTGTCGAAGGT CAAACACCTAAATATGCCGATAAAACATTTCAACCTGAACCT CAAATAGGAGAATCTCAGTGGTACGAAACTGAAATTAA TCATGCAGCTGGGAGAGTCCTTAAAAAGACTACCCCAATGAA ACCATGTTACGGTTCATATGCAAAACCCACAAATGAAA ATGGAGGGCAAGGCATTCTTGTAAAGCAACAAAATGGAAAG CTAGCCCGTCAAGTGGAAATGCAATTTTTCTCAACTACT GAGGCGACCGCAGGCAATGGTGATAACTTGACTCCTAAAGT GGTATTGTACAGTGAAGATGTAGATATAGAAACCCCAGA CACTCATATTTCTTACATGCCCACTATTAAGGAAGGTAACTCA CGAGAACTAATGGGCCAACAATCTATGCCCAACAGGC CTAATTACATTGCTTTTAGGGACAATTTTATTGGTCTAATGTA TTACAACAGCACGGGTAATATGGGTGTTCTGGCGGGC CAAGCATCGCAGTTGAATGCTGTTGTAGATTTGCAAGACAGA AACACAGAGCTTTCATACCAGCTTTTGCTTGATTCCAT TGGTGATAGAACCAGGTACTTTTCTATGTGGAATCAGGCTGT TGACAGCTATGATCCAGATGTTAGAATTATTGAAAATC ATGGAACTGAAGATGAACTTCCAAATTACTGCTTTCCACTGG GAGGTGTATTAATACAGAGACTCTTACCAAGGTAAAA CCTAAAACAGGTCAGGAAAATGGATGGGAAAAAGATGCTAC AGAATTTTCAGATAAAAATGAAATAAGAGTTGGAAATAA TTTTGCCATGGAAATCAATCTAAATGCCAACCTGTGGAGAAA TTTCCTGTACTCCAACATACGCGTGTATTTGCCCGACA AGCTAAAGTACAGTCCTTCCAACGTAAAAATTTCTGATAACC CAAACACCTACGACTACATGAACAAGCGAGTGGTGGCT CCCGGGTTAGTGGACTGCTACATTAACCTTGGAGCACGCTG GTCCCTTGACTATATGGACAACGTCAACCCATTTAACCA CCACCGCAATGCTGGCCTGCGCTACCGCTCAATGTTGCTGG GCAATGGTCGCTATGTGCCCTTCCACATCCAGGTGCCTC AGAAGTTCTTTGCCATTAAAAACCTCCTTCTCCTGCCGGGCT CATACACCTACGAGTGGAACTTCAGGAAGGATGTTAAC ATGGTTCTGCAGAGCTCCCTAGGAAATGACCTAAGGGTTGA CGGAGCCAGCATTAAGTTTGATAGCATTTGCCTTTACGC CACCTTCTTCCCCATGGCCCACACACCCGCCTCCACGCTTGA GGCCATGCTTAGAAACGACACCAACGACCAGTCCTTTA ACGACTATCTCCCCCCCCAACATGCTCTACCCTATACCCG CCAACGCTACCAACGTGCCCATATCCATCCCCTCCCGC AACTGGGCGGCTTTCCGCGGCCTGGGCCTTCACGCGCCTTAA GACTAAGGAAACCCCATCACTGGGCTCGGGCTACGACCC TTATTACACCTACTCTGGCTCTATACCCTACCTAGATGGAACC TTTTACCTCAACCACACCTTTAAGAAGGTGGCCATTA CCTTTGACTCTGTCAGCTGGCCTGGCAATGACCGCCTGC TTACCCCCAACGAGTTTGAAATTAAGCGCTCAGTTGAC GGGGAGGGTTACAACGTTGCCCAGTGTAACATGACCAAAGA CTGGTTCCTGGTACAAATGCTAGCTAACTACAACATTGG CTACCAGGGCTTCTATATCCCAGAGAGCTACAAGGACCGCAT



GTACTCCTTCTTTAGAAACTTCCAGCCCATGAGCCGTC **AGGTGGTGGATGATACTAAATACAAGGGACTACCAACAGGTG** GGCATCCTACACCAACACAACACTCTGGATTTGTTGGC TACCTTGCCCCCACCATGCGCGAAGGACAGGCCTACCCTGC TAACTTCCCCTATCCGCTTATAGGCAAGACCGCAGTTGA CAGCATTACCCAGAAAAAGTTTCTTTGCGATCGCACCCTTTG GCGCATCCCATTCTCCAGTAACTTTATGTCCATGGGCG CACTCACAGACCTGGGCCAAAACCTTCTCTACGCCAACTCCG CCCACGCGCTAGACATGACTTTTGAGGTGGATCCCATG GACGAGCCCACCCTTCTTTATGTTTTGTTTGAAGTCTTTGACG TGGTCCGTGTGCACCGGCCGCCGCGCGCGTCATCGA AACCGTGTACCTGCGCACGCCCTTCTCGGCCGGCAACTCCA CAACATAAAGAAGCAAGCAACATCAACAACAGCTGCCGC CATGGGCTCCAGTGAGCAGGAACTGAAAGCCATTGTCAAAG ATCTTGGTTGTGGGCCATATTTTTTGGGCACCTATGACA AGCGCTTTCCAGGCTTTGTTTCTCCACACAAGCTCGCCTGCG CCATAGTCAATACGGCCGGTCGCGAGACTGGGGGCGTA CACTGGATGGCCTTTGCCTGGAACCCGCACTCAAAAACATGC TACCTCTTTGAGCCCTTTGGCTTTTCTGACCAGCGACT CAAGCAGGTTTACCAGTTTGAGTACGAGTCACTCCTGCGCCG TAGCGCCATTGCTTCTTCCCCCGACCGCTGTATAACGC TGGAAAAGTCCACCCAAAGCGTACAGGGGCCCAACTCGGCC GCCTGTGGACTATTCTGCTGCATGTTTCTCCACGCCTTT GCCAACTGGCCCCAAACTCCCATGGATCACAACCCCACCATG AACCTTATTACCGGGGTACCCAACTCCATGCTCAACAG TCCCCAGGTACAGCCCACCCTGCGTCGCAACCAGGAACAGC TCTACAGCTTCCTGGAGCGCCACTCGCCCTACTTCCGCA GCCACAGTGCGCAGATTAGGAGCGCCACTTCTTTTTGTCACT TGAAAAACATGTAAAAATAATGTACTAGAGACACTTTC AATAAAGGCAAATGCTTTTATTTGTACACTCTCGGGTGATTAT TTACCCCCACCCTTGCCGTCTGCGCCGTTTAAAAATC AAAGGGGTTCTGCCGCGCATCGCTATGCGCCACTGGCAGGG ACACGTTGCGATACTGGTGTTTAGTGCTCCACTTAAACT CAGGCACAACCATCCGCGGCAGCTCGGTGAAGTTTTCACTC CACAGGCTGCGCACCATCACCAACGCGTTTAGCAGGTCG GGCGCCGATATCTTGAAGTCGCAGTTGGGGCCTCCGCCCTG CGCGCGCGAGTTGCGATACACAGGGTTGCAGCACTGGAA CACTATCAGCGCCGGGTGGTGCACGCTGGCCAGCACGCTCT TGTCGGAGATCAGATCCGCGTCCAGGTCCTCCGCGTTGC TCAGGGCGAACGGAGTCAACTTTGGTAGCTGCCTTCCCAAA AAGGGCGCGTGCCCAGGCTTTGAGTTGCACTCGCACCGT AGTGGCATCAAAAGGTGACCGTGCCCGGTCTGGGCGTTAGG ATACAGCGCCTGCATAAAAGCCTTGATCTGCTTAAAAGC CACCTGAGCCTTTGCGCCTTCAGAGAAGAACATGCCGCAAG ACTTGCCGGAAAACTGATTGGCCGGACAGGCCGCGTCGT GCACGCAGCACCTTGCGTCGGTGTTGGAGATCTGCACCACA



TTTCGGCCCCACCGGTTCTTCACGATCTTGGCCTTGCTA GACTGCTCCTTCAGCGCGCGCTGCCCGTTTTCGCTCGTCACA TCCATTTCAATCACGTGCTCCTTATTTATCATAATGCT TCCGTGTAGACACTTAAGCTCGCCTTCGATCTCAGCGCAGCG CTGCAGCCACAACGCGCAGCCCGTGGGCTCGTGATGCT TGTAGGTCACCTCTGCAAACGACTGCAGGTACGCCTGCAGG AATCGCCCCATCATCGTCACAAAGGTCTTGTTGCTGGTG AAGGTCAGCTGCAACCCGCGGTGCTCCTCGTTCAGCCAGGT CTTGCATACGGCCGCCAGAGCTTCCACTTGGTCAGGCAG TAGTTTGAAGTTCGCCTTTAGATCGTTATCCACGTGGTACTTG TCCATCAGCGCGCGCGCAGCCTCCATGCCCTTCTCCC ACGCAGACACGATCGGCACACTCAGCGGGTTCATCACCGTA ATTTCACTTTCCGCTTCGCTGGGCTCTTCCTCTT CGCCGCACTGTGCGCTTACCTCCTTTGCCATGCTTGAT TAGCACCGGTGGGTTGCTGAAACCCACCATTTGTAGCGCCA CATCTTCTTCTTCCTCGCTGTCCACGATTACCTCTG GTGATGGCGGGCTCGGGCTTGGGAGAGGGCGCTTCTTT TTCTTCTTGGGCGCAATGGCCAAATCCGCCGCCGAGGTC GATGGCCGCGGCTGGGTGTGCGCGCGCACCAGCGCGTCTT GTGATGAGTCTTCCTCGTCCTCGGACTCGATACGCCGCCT CATCCGCTTTTTTGGGGGCGCCCCGGGGAGGCGGCGAC GGGGACGGGACGACACGTCCTCCATGGTTGGGGGACGTC GCGCCGCACCGCGTCCGCGCTCGGGGGTGGTTTCGCGCTG CTCCTCTTCCCGACTGGCCATTTCCTTCTCCTATAGGCAG AAAAAGATCATGGAGTCAGTCGAGAAGAAGGACAGCCTAAC CGCCCCTCTGAGTTCGCCACCGCCTCCACCGATGC CGCCAACGCGCCTACCACCTTCCCCGTCGAGGCACCCCCGC TTGAGGAGGAGGAAGTGATTATCGAGCAGGACCCAGGTT TTGTTAAGCGAAGACGACGAGGACCGCTCAGTACCAACAGAG GATAAAAAGCAAGACCAGGACAACGCAGAGGCAAACGAG GAACAAGTCGGGCGGGGGGACGAAAGGCATGGCGACTACC TAGATGTGGGAGACGACGTGCTGTTGAAGCATCTGCAGCG CCAGTGCGCCATTATCTGCGACGCGTTGCAAGAGCGCAGCG ATGCTGCCCCTCGCCATAGCGGATGTCAGCCTTGCCCTACG AACGCCACCTATTCTCACCGCGCGTACCCCCCAAACGCCAAG AAACGGCACATGCGAGCCCAACCCGCGCCTCAACTTC TACCCGTATTTGCCGTGCCAGCGGTGCTTGCCACCTATCAC ATCTTTTCCAAAACTGCAAGATACCCCTATCCTGCCG TGCCAACCGCAGCCGAGAGACAAGCAGCTGGCCTTGCGG CAGGGCGCTGTCATACCTGATATCGCCTCGCTCAACGAAG TGCCAAAAATCTTTGAGGGTCTTGGACGCGACGAGAAGCGC GCGGCAAACGCTCTGCAACAGGAAAACAGCGAAAATGAA AGTCACTGGAGTGTTGGTGGAACTCGAGGGTGACAACGC GCGCCTAGCCGTACTAAAACGCAGCATCGAGGTCACCCA CTTTGCCTACCCGGCACTTAACCTACCCCCCAAGGTCATGAG



CACAGTCATGAGTGAGCTGATCGTGCGCCGTGCGCAGC CCCTGGAGAGGGATGCAAATTTGCAAGAACAAACAGAGGAG GGCCTACCCGCAGTTGGCGACGAGCAGCTAGCGCGCTGG CTTCAAACGCGCGAGCCTGCCGACTTGGAGGAGCGACGACGCAA ACTAATGATGGCCGCAGTGCTCGTTACCGTGGAGCTTGA GTGCTGCAGCGGTTCTTTGCTGACCCGGAGATGCAGCGCA AGCTAGAGGAAACATTGCACTACACCTTTCGACAGGGCT ACGTACGCCAGGCCTGCAAGATCTCCAACGTGGAGCTCTGC AACCTGGTCTCCTACCTTGGAATTTTGCACGAAAACCGC CTTGGGCAAAACGTGCTTCATTCCACGCTCAAGGGCGAGGC GCGCCGCGACTACGTCCGCGACTGCGTTTACTTATTTCT ATGCTACACCTGGCAGACGGCCATGGGCGTTTGGCAGT GCTTGGAGGAGTGCAACCTTCAAGGAGCTGCAGAAACTGC TAAAGCAAAACTTGAAGGACCTATGGACGGCCTTCAACGAG CGCTCCGTGGCCGCGCACCTGGCGGACATCATTTTCCCC GAACGCCTGCTTAAAACCCTGCAACAGGGTCTGCCAGACTTC ACCAGTCAAAGCATGTTGCAGAACTTTAGGAACTTTAT CCTAGAGCGCTCAGGAATCTTGCCCGCCACCTGCTGTGCACT TCCTAGCGACTTTGTGCCCATTAAGTACCGCGAATGCC CTCCGCCGCTTTGGGGCCACTGCTACCTTCTGCAGCTAGCCA ACTACCTTGCCTACCACTCTGACATAATGGAAGACGTG AGCGGTGACGGTCTACTGGAGTGTCACTGTCGCTGCAACCT ATGVAVVVVGVAVVGVTVVVTGGTTTGVAATTVGVAGVT GCTTAACGAAAGTCAAATTATCGGTACCTTTGAGCTGCAGGG TCCCTCGCCTGACGAAAAGTCCGCGGCTCCGGGGTTCA AACTCACTCCGGGGCTGTGGACGTCGGCTTACCTTCGCAAAT TTGTACCTGAGGACTACCACGCCCACGAGATTAGGTTC TACGAAGACCAATCCCGCCCGCCAAATGCGGAGCTTACCGC CTGCGTCATTACCCAGGGCCACATTCTTGGCCAATTGCA AGCCATCAACAAAGCCCGCCAAGAGTTTCTGCTACGAAAGG GACGGGGGTTTACTTGGACCCCCAGTCCGGCGAGGAGC TCAACCCAATCCCCCCGCCGCCGCAGCCCTATCAGCAGCAG CCGCGGGCCCTTGCTTCCCAGGATGGCACCCAAAAAGAA GCTGCAGCTGCCGCCGCCACCCACGGACGAGGAGGAATACT GGGACAGTCAGGCAGAGGAGGTTTTGGACGAGGAGGAGG AGGACATGATGGAAGACTGGGAGAGCCTAGACGAGGAAGC TTCCGAGGTCGAAGAGGTGTCAGACGAAACACCGTCACCC TCGGTCGCATTCCCCTCGCCGGCGCCCCAGAAATCGGCAAC CGGTTCCAGCATGGCTACAACCTCCGCTCCTCAGGCGCC GCCGGCACTGCCCGTTCGCCGACCCAACCGTAGATGGGACA CCACTGGAACCAGGGCCGGTAAGTCCAAGCAGCCGCCGC CGTTAGCCCAAGAGCAACAACAGCGCCAAGCTACCGCTCA TGGCGCGGGCACAAGAACGCCATAGTTGCTTGCCAA GACTGTGGGGGCAACATCTCCTTCGCCCGCCGCTTTCTTCTC TACCATCACGGCGTGGCCTTCCCCCGTAACATCCTGCA TTACTACCGTCATCTCTACAGCCCATACTGCACCGGCGGCAG



CGGCAGCGGCAGCAACAGCAGCGGCCACACAGAAGCAA AGGCGACCGGATAGCAAGACTCTGACAAAGCCCAAGAAATC CACAGCGGCGGCAGCAGCAGGAGGAGGAGCGCTGCGTCT GGCGCCCAACGAACCCGTATCGACCCGCGAGCTTAGAAACA GGATTTTTCCCACTCTGTATGCTATATTTCAACAGAGCA GGGGCCAAGAACAAGAGCTGAAAATAAAAAACAGGTCTCTG CGATCCCTCACCCGCAGCTGCCTGTATCACAAAAGCGAA GATCAGCTTCGGCGCACGCTGGAAGACGCGGAGGCTCTCTT CAGTAAATACTGCGCGCTGACTCTTAAGGACTAGTTTCG CGCCCTTTCTCAAATTTAAGCGCGAAAACTACGTCATCTCCA GCGGCCACACCCGGCGCCCAGCACCTGTCGTCAGCGCCA TTATGAGCAAGGAAATTCCCACGCCCTACATGTGGAGTTACC AGCCACAAATGGGACTTGCGGCTGGAGCTGCCCAAGAC TACTCAACCCGAATAAACTACATGAGCGCGGGACCCCACAT GATATCCCGGGTCAACGGAATCCGCGCCCACCGAAACCG **AATTCTCTTGGAACAGGCGGCTATTACCACCACACCTCGTAA** TAACCTTAATCCCCGTAGTTGGCCCGCTGCCCTGGTGT ACCAGGAAAGTCCCGCTCCCACCACTGTGGTACTTCCCAGA GACGCCCAGGCCGAAGTTCAGATGACTAACTCAGGGGCG CAGCTTGCGGGCGGCTTTCGTCACAGGGTGCGGTCGCCCGG GCAGGGTATAACTCACCTGACAATCAGAGGGCGAGGTAT TCAGCTCAACGACGAGTCGGTGAGCTCCTCGCTTGGTCTCC GTCCGGACGGACATTTCAGATCGGCGGCGCCGGCCGTC GTTCATTCACGCCTCGTCAGGCAATCCTAACTCTGCAGACCT CGTCCTCTGAGCCGCGCTCTGGAGGCATTGGAACTCTG CATTTATTGAGGAGTTTGTGCATCGGTCTACTTTAACCCCT TCTCGGGACCTCCCGGCCACTATCCGGATCAATTTAT TCCTAACTTTGACGCGGTAAAGGACTCGGCGGACGGCTACG ACTGAATGTTAAGTGGAGAGGCAGCAACTGCGCCTGA AACACCTGGTCCACTGTCGCCGCCACAAGTGCTTTGCCCGC GACTCCGGTGAGTTTTGCTACTTTGAATTGCCCGAGGAT CATATCGAGGGCCCGGCGCACGGCGTCCGGCTTACCGCCCA GGGAGAGCTTGCCCGTAGCCTGATTCGGGAGTTTACCCA GCGCCCCCTGCTAGTTGAGCGGGACAGGGGACCCTGTGTTC TCACTGTGATTTGCAACTGTCCTAACCTTGGATTACATC AAGATCTTTGTTGCCATCTCTGTGCTGAGTATAAATACAG AAATTAAAATATACTGGGGCTCCTATCGCCATCCTGT AAACGCCACCGTCTTCACCCGCCCAAGCAAACCAAGGCGAA CCTTACCTGGTACTTTTAACATCTCTCCCTCTGTGATTT ACAACAGTTTCAACCCAGACGGAGTGAGTCTACGAGAGAAC CTCTCCGAGCTCAGCTACTCCATCAGAAAAAACACCACC CTCTCCGAGCTCAGCTACTCCATCAGAAAAAACACCACC CTCCTTACCTGCCGGGAACGTACGAGTGCGTCACCGGCCGC TGCACCACACCTACCGCCTGACCGTAAACCAGACTTTTT CCGGACAGACCTCAATAACTCTGTTTACCAGAACAGGAGGT GAGCTTAGAAAACCCTTAGGGTATTAGGCCAAAGGCGCA



GCTACTGTGGGGTTTATGAACAATTCAAGCAACTCTACGGGC
TATTCTAATTCAGGTTTCTCTAATCGGGGTTGGGGTTA
TTCTCTGTCTTGTGATTCTCTTTATTCTTATACTAACGCTTCTC
TGCCTAAGGCTCGCCGCCTGCTGTGTGCACATTTGC
ATTTATTGTCAGCTTTTTAAACGCTGGGGTCGCCACCCAAGA
TGATTAGGTACATAATCCTAGGTTTACTCACCCTTGCG
TCAGCCCACGGTACCACCCAAAAGGTGGATTTTAAGGAGCC
AGCCTGTAATGTTACATTCGCAGCTGAAGCTATGAGTG
CACCACTCTTATAAAATGCACCACAGAACATGAAAAGCTGCT

ACTTTTCCATTTTATGAAATGTGCTACATTACCATGTACATGA GCAAACAGTATAAGTTGTGGCCCCCACAAAATTGTGT **GGAAAACACTGGCACTTTCTGCTGCACTGCTATGCTAATTAC** AGTGCTCGCTTTGGTCTGTACCCTACTCTATATTAAAT ACAAAAGCAGGACGCAGCTTTATTGAGGAAAAGAAAATGCCTT **AATTTACTAAGTTACAAAGCTAATGTCACCACTAACTG** CTTTACTCGCTGCTTGCAAAACAAATTCAAAAAGTTAGCATTA TAATTAGAATAGGATTTAAACCCCCCGGTCATTTCCT GCTCAATACCATTCCCCTGAACAATTGACTCTATGTGGGATA TGCTCCAGCGCTACAACCTTGAAGTCAGGCTTCCTGGA TGTCAGCATCTGACTTTGGCCAGCACCTGTCCCGCGGATTTG TTCCAGTCCAACTACAGCGACCCACCCTAACAGAGATG ACCAACACAACCAACGCGGCCGCCGCTACCGGACTTACATC TACCACAAATACACCCCAAGTTTCTGCCCTTTGTCAATAA CTGGGATAACTTGGGCATGTGGTGGTTCTCCATAGCGCTTAT GTTTGTATGCCTTATTATTATGTGGCTCATCTGCTGCC TAAAGCGCAAACGCGCCCGACCACCCATCTATCGTCCCATCA TTGTGCTACACCCAAACAATGATGGAATCCATAGATTG GACGGACTGAAACACATGTTCTTTTCTCTTACAGTATGATTAA ATGAGACATGATTCCTCGAGTTTTTATATTACTGACC CTTGTTGCGCTTTTTTTGTGCGTGCTCCACATTGGCTGCGGTTT CTCACATCGAAGTAGACTGCATTCCAGCCTTCACAGT CTATTTGCTTTACGGATTTGTCACCCTCACGCTCATCTGCAGC CTCATCACTGTGGTCATCGCCTTTATCCAGTGCATTG ACTGGGTCTGTGCGCTTTGCATATCTCAGACACCATCCCC AGTACAGGGACAGGACTATAGCTGAGCTTCTTAGCCCT GGACGGAATTATTACAGAGCAGCGCCTGCTAGAAAGACGCA GGGCAGCGGCCGAGCAACAGCGCATGAATCAAGAGCTCC

TCAGAAATTGGTGGTCATGGTGGG CATAACTCAGCACTCGGTAGAAACCGAAGGCTGCATTCACTC ACCTTGTCAAGGACCTGAGGATCTCTGCACCCTTATTA



AGACCCTGTGCGGTCTCAAAGATCTTATTCCCTTTAACTAATA **AAAAAAAATAATAAAGCATCACTTACTTAAAATCAGT** TAGCAAATTTCTGTCCAGTTTATTCAGCAGCACCTCCTTGCCC TCCTCCCAGCTCTGGTATTGCAGCTTCCTCCTGGCTG CAAACTTTCTCCACAATCTAAATGGAATGTCAGTTTCCTCCTG TTCCTGTCCATCCGCACCCACTATCTTCATGTTGTTG CAGATGAAGCGCGCAAGACCGTCTGAAGATACCTTCAACCC CGTGTATCCATATGACACGGAAACCGGTCCTCCAACTGT GCCTTTTCTTACTCCTCCCTTTGTATCCCCCAATGGGTTTCAA GAGAGTCCCCCTGGGGTACTCTCTTTGCGCCTATCCG **AACCTCTAGTTACCTCCAATGGCATGCTTGCGCTCAAAATGG** GCAACGGCCTCTCTCTGGACGAGGCCGGCAACCTTACC TCCCAAAATGTAACCACTGTGAGCCCCACCTGTGAAAAAAACC AAGTCAAACATAAACCTGGAAATATCTGCACCCCTCAC AGTTACCTCAGAAGCCCTAACTGTGGCTGCCGCCGCACCTCT AATGGTCGCGGGCAACACACTCACCATGCAATCACAGG CCCCGCTAACCGTGCACGACTCCAAACTTAGCATTGCCACCC AAGGACCCCTCACAGTGTCAGAAGGAAAGCTAGCCCTG CAAACATCAGGCCCCCTCACCACCACCGATAGCAGTACCCTT ACTATCACTGCCTCACCCCCTCTAACTACTGCCACTGG TAGCTTGGGCATTGACTTGAAAGAGCCCATTTATACACAAAA TGGAAAACTAGGACTAAAGTACGGGGCTCCTTTGCATG TAACAGACGACCTAAACACTTTGACCGTAGCAACTGGTCCAG GTGTGACTATTAATAATACTTCCTTGCAAACTAAAGTT ACTGGAGCCTTGGGTTTTGATTCACAAGGCAATATGCAACTT AATGTAGCAGGAGGACTAAGGATTGATTCTCAAAACAG ACGCCTTATACTTGATGTTAGTTATCCGTTTGATGCTCAAAAC CAACTAAATCTAAGACTAGGACAGGGCCCTCTTTTTA TAAACTCAGCCCACAACTTGGATATTAACTACAACAAAGGCC TTTACTTGTTTACAGCTTCAAACAATTCCAAAAAGCTT GAGGTTAACCTAAGCACTGCCAAGGGGTTGATGTTTGACGC TACAGCCATAGCCATTAATGCAGGAGATGGGCTTGAATT TGGTTCACCTAATGCACCAAACACAAATCCCCTCAAAACAAA AATTGGCCATGGCCTAGAATTTGATTCAAACAAGGCTA TGGTTCCTAAACTAGGAACTGGCCTTAGTTTTGACAGCACAG GTGCCATTACAGTAGGAAACAAAAATAATGATAAGCTA ACTTTGTGGACCACACCAGCTCCATCTCCTAACTGTAGACTA AATGCAGAGAAAGATGCTAAACTCACTTTGGTCTTAAC **AAAATGTGGCAGTCAAATACTTGCTACAGTTTCAGTTTTGGC** TGTTAAAGGCAGTTTGGCTCCAATATCTGGAACAGTTC AAAGTGCTCATCTTATTATAAGATTTGACGAAAATGGAGTGC TACTAAACAATTCCTTCCTGGACCCAGAATCTTGGAAC TTTAGAAATGGAGATCTTACTGAAGGCACAGCCTATACAAAC GCTGTTGGATTTATGCCTAACCTATCAGCTTATCCAAA ATCTCACGGTAAAACTGCCAAAAGTAACATTGTCAGTCAAGT TTACTTAAACGGAGACAAAACTAAACCTGTAACACTAA



CCATTACACTAAACGGTACACAGGAAACAGGAGACACAACT CCAAGTGCATACTCTATGTCATTTTCATGGGACTGGTCT GGCCACAACTACATTAATGAAATATTTGCCACATCCTCTTACA CTTTTTCATACATTGCCCAAGAATAAAGAATCGTTTG TGTTATGTTTCAACGTGTTTATTTTTCAATTGCAGAAAATTTCA AGTCATTTTCATTCAGTAGTATAGCCCCCACCACCA CATAGCTTATACAGATCACCGTACCTTAATCAAACTCACAGA ACCCTAGTATTCAACCTGCCACCTCCCTCCCAACACAC AGAGTACACAGTCCTTTCTCCCCGGCTGGCCTTAAAAAGCAT CATATCATGGGTAACAGACATATTCTTAGGTGTTATAT TCCACACGGTTTCCTGTCGAGCCAAACGCTCATCAGTGATAT TAATAAACTCCCCGGGCAGCTCACTTAAGTTCATGTCG CTGTCCAGCTGCTGAGCCACAGGCTGCTGTCCAACTTGCGG TTGCTTAACGGGCGGCGAAGGAGAGTCCACTCCTACAT GGGGGTAGAGTCATAATCGTGCATCAGGATAGGGCGGTGGT GCTGCAGCAGCGGCGAATAAACTGCTGCCGCCGCCGCT CCGTCCTGCAGGAATACAACATGGCAGTGGTCTCCTCAGCG ATGATTCGCACCGCCCGCAGCATAAGGCGCCTTGTCCTC CGGGCACAGCACCCTGATCTCACTTAAATCAGCACA GTAACTGCAGCACAGCACCACAATATTGTTCAAAATCCC ACAGTGCAAGGCGCTGTATCCAAAGCTCATGGCGGGGACCA CAGAACCCACGTGGCCATCATACCACAAGCGCAGGTAGA TTAAGTGGCGACCCCTCATAAACACGCTGGACATAAACATTA CCTCTTTTGGCATGTTGTAATTCACCACCTCCCGGTAC CATATAAACCTCTGATTAAACATGGCGCCATCCACCACCATC CTAAACCAGCTGGCCAAAACCTGCCCGCCGGCTATACA CTGCAGGGAACCGGGACTGGAACAATGACAGTGGAGAGCC CAGGACTCGTAACCATGGATCATCATGCTCGTCATGATAT CAATGTTGGCACACACACAGGCACACGTGCATACACTTCCTCA GGATTACAAGCTCCTCCCGCGTTAGAACCATATCCCAG GGAACAACCCATTCCTGAATCAGCGTAAATCCCACACTGCAG GGAAGACCTCGCACGTAACTCACGTTGTGCATTGTCAA AGTGTTACATTCGGGCAGCAGCGGATGATCCTCCAGTATGG TAGCGCGGGTTTCTGTCTCAAAAGGAGGTAGACGATCCC TACTGTACGGAGTGCGCCGAGACAACCGAGATCGTGTTGGT CGTAGTGTCATGCCAAATGGAACGCCGGACGTAGTCATA TTTCCTGAAGCAAAACCAGGTGCGGGCGTGACAAACAGATC TGCGTCTCCGGTCTCGCCGCTTAGATCGCTCTGTCTAGT AGTTGTAGTATATCCACTCTCTCAAAGCATCCAGGCGCCCCCC TGGCTTCGGGTTCTATGTAAACTCCTTCATGCGCCGCT GCCCTGATAACATCCACCACCGCAGAATAAGCCACACCCAG CCAACCTACACATTCGTTCTGCGAGTCACACACGGGAGG AAAGATTATCCAAAACCTCAAAATGAAGATCTATTAAG TGAACGCGCTCCCCTCCGGTGGCGTGGTCAAACTCTACAGC CAAAGAACAGATAATGGCATTTGTAAGATGTTGCACAAT



GGCTTCCAAAAGGCAAACGGCCCTCACGTCCAAGTGGACGT AAAGGCTAAACCCTTCAGGGTGAATCTCCTCTATAAACA TTCCAGCACCTTCAACCATGCCCAAATAATTCTCATCTCGCCA CCTTCTCAATATATCTCTAAGCAAATCCCGAATATTA **AGTCCGGCCATTGTAAAAATCTGCTCCAGAGCGCCCTCCACC** TTCAGCCTCAAGCAGCGAATCATGATTGCAAAAATTCA GGTTCCTCACAGACCTGTATAAGATTCAAAAGCGGAACATTA ACAAAAATACCGCGATCCCGTAGGTCCCTTCGCAGGGC CAGCTGAACATAATCGTGCAGGTCTGCACGGACCAGCGCGG CCACTTCCCCGCCAGGAACCTTGACAAAAGAACCCACAC TGATTATGACACGCATACTCGGAGCTATGCTAACCAGCGTAG CCCCGATGTAAGCTTTGTTGCATGGGCGGCGATATAAA ATGCAAGGTGCTGCTCAAAAAATCAGGCAAAGCCTCGCGCA AAAAAGAAAGCACATCGTAGTCATGCTCATGCAGATAAA GGCAGGTAAGCTCCGGAACCACCACAGCCCCCGACACCATT TTTCTCTCAAACATGTCTGCGGGTTTCTGCATAAACACA AAATAAAATAACAAAAAACATTTAAACATTAGAAGCCTGTCT TACAACAGGAAAAACAACCCTTATAAGCATAAGACGG ACTACGGCCATGCCGGCGTGACCGTAAAAAAACTGGTCACC GTGATTAAAAAGCACCACCGACAGCTCCTCGGTCATGTC CGGAGTCATAATGTAAGACTCGGTAAACACATCAGGTTGATT CATCGGTCAGTGCTAAAAAGCGACCGAAATAGCCCGGG GGAATACATACCCGCAGGCGTAGAGACAACATTACAGCCCC CATAGGAGGTATAACAAAATTAATAGGAGAGAAAAACAC ATAAACACCTGAAAAACCCTCCTGCCTAGGCAAAATAGCACC CTCCCGCTCCAGAACAACATACAGCGCTTCACAGCGGC AGCCTAACAGTCAGCCTTACCAGTAAAAAAGAAAACCTATTA AAAAAACACCACTCGACACGGCACCAGCTCAATCAGTC GACTAAAAATGACGTAACGGTTAAAGTCCACAAAAAAC ACCCAGAAAACCGCACGCGAACCTACGCCCAGAAACGAAAG CCAAAAAACCCACAACTTCCTCAAATCGTCACTTCCGTT TTCCCACGTTACGTAACTTCCCATTTTAAGAAAACTACAATTC CCAACACATACAAGTTACTCCGCCCTAAAACCTACGT CACCCGCCCGTTCCCACGCCCCGCGCCACGTCACAAACTC CACCCCCTCATTATCATATTGGCTTCAATCCAAAATAAG GTATAT